

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-083849

(43)Date of publication of application : 22.03.2002

(51)Int.Cl.

H01L 21/66
G01B 15/00
G01B 15/04
G01N 23/225
G01N 27/00
H01J 37/20
H01J 37/28

(21)Application number : 2000-311196

(71)Applicant : NEC CORP

(22)Date of filing : 11.10.2000

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(30)Priority

Priority number : 11315320

Priority date : 05.11.1999

Priority country : JP

2000191817

26.06.2000

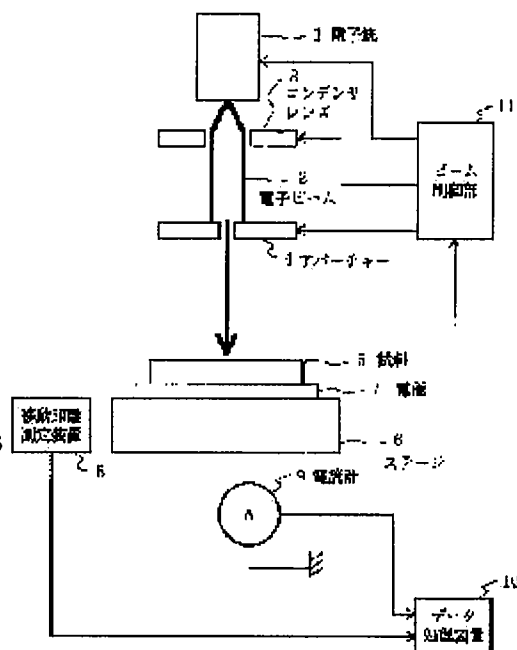
JP

(54) SEMICONDUCTOR DEVICE INSPECTING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To inspect a detailed shape of a contact hole and an internal state of a semiconductor device by non-destructive manner, by more improving technique for detecting a board current generated by irradiation of an electron beam.

SOLUTION: A specimen 5 is irradiated with parallel electron beams 2, and a current flowing in the specimen 5 is measured with an ammeter 9. Acceleration voltage of the electron beams 2 is changed, and measurement is repeated. In data processing equipment 10, information regarding a structure in the depthwise direction of the specimen 5 is obtained from difference of transmittance of the electron beams 2 to the specimen 5 which is



caused by difference of the acceleration voltage.

LEGAL STATUS

[Date of request for examination] 19.09.2001

[Date of sending the examiner's decision of rejection] 16.08.2005

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3749107

[Date of registration] 09.12.2005

[Number of appeal against examiner's decision of rejection] 2005-17739

[Date of requesting appeal against examiner's decision of rejection] 15.09.2005

[Date of extinction of right]